





OIPE

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RAW SEQUENCE LISTING DATE: 03/25/2002 PATENT APPLICATION: US/09/996,617 TIME: 15:24:33

Input Set : A:\07334-340001.TXT

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4 <110> APPLICANT: Bertin, John
 7 <120> TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
         PROTEIN FAMILY AND USES THEREOF
11 <130> FILE REFERENCE: 07334-340001
13 <140> CURRENT APPLICATION NUMBER: 09/996,617
14 <141> CURRENT FILING DATE: 2001-11-27
16 <150> PRIOR APPLICATION NUMBER: 09/931,071
17 <151> PRIOR FILING DATE: 2001-08-15
19 <150> PRIOR APPLICATION NUMBER: 09/428,252
20 <151> PRIOR FILING DATE: 1999-10-27
22 <150> PRIOR APPLICATION NUMBER: 09/340,620
23 <151> PRIOR FILING DATE: 1999-06-28
25 <160> NUMBER OF SEQ ID NOS: 10
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30 <211> LENGTH: 5444
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
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35 <221> NAME/KEY: CDS
36 <222> LOCATION: (523)...(4809)
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41 qcaqctcaaq qqttqatctc aggaqtccaq gacccaggag agggaagaat ctgaggaaca
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42 cagaacagtg agcgttgccc acaccccatc tcccgtcacc acatctcccc tcaccctcac
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43 cetecetgee tggeeetgga eeccateeea ggaeeteeet ateagetgae ttetteeagt
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44 gtettgeagg eccetetggg etectecete ecctggettt tectaceaet ecceetetat
45 cggcgtctat ctgtaggtgc cctgggattt ataaaactgg gttccgaatg ctgaataaga
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46 gacggtaaga gccaaggcaa aggacagcac tgttctctgc ctgcctgata ccctcaccac
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47 ctgggaacat cccccagaca ccctcttaac tccgggacag ag atg gct ggc gga
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48
                                                   Met Ala Gly Gly
49
                                                                          582
51 gcc tgg ggc cgc ctg gcc tgt tac ttg gag ttc ctg aag aag gag gag
52 Ala Trp Gly Arg Leu Ala Cys Tyr Leu Glu Phe Leu Lys Lys Glu Glu
53
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                                             15
                                                                          630
55 ctg aag gag ttc cag ctt ctg ctc gcc aat aaa gcg cac tcc agg agc
56 Leu Lys Glu Phe Gln Leu Leu Leu Ala Asn Lys Ala His Ser Arg Ser
57
                    25
                                        30
                                                                          678
59 tet teg ggt gag aca eee get eag eea gag aag aeg agt gge atg gag
60 Ser Ser Gly Glu Thr Pro Ala Gln Pro Glu Lys Thr Ser Gly Met Glu
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63 gtg gcc tcg tac ctg gtg gct cag tat ggg gag cag cgg gcc tgg gac
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68 Leu	-					_	_		_						
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71 caa			aaa	aa2		020	tat	000	t 0 2		000	tao	200	002	822
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72 Gln	Ala Gi	n GIU	GTÀ		GIY	HIS	ser	Pro		Pne	PIO	TAL	ser		
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75 agt	gaa cc	c cac	ctg	ggg	tct	ccc	agc	caa	ccc	acc	tcc	acc	gca	gtg	870
76 Ser	Glu Pr	o His	Leu	G1y	Ser	Pro	Ser	G1n	Pro	Thr	Ser	Thr	A1a	Va1	
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80 Leu	-				-										
81	1100 11	120		1110	014	2 00	125		011	010		130		001	
						~+~				+-+				+	0.66
83 gag															966
84 Glu	-		Leu	Arg	GIn		Pro	Asp	Thr	ser	_	Arg	Arg	Trp	
85	13	5				140					145				
87 aga	gaa at	c tct	gcc	tca	ctc	ctc	tac	caa	gct	ctt	cca	agc	tcc	cca	1014
88 Arg	Glu Il	e Ser	A1a	Ser	Leu	Leu	Tyr	G1n	A1a	Leu	Pro	Ser	Ser	Pro	
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92 Asp															1002
	nis Gi	ı sei	PIO		GIII	GIU	Ser	PIO		на	PIO	1111	Ser		
93 165				170					175					180	4440
95 gca		, ,,,	_						_		_		-		1110
96 Ala	Val Le	ı Gly	Ser	Trp	Gly	Ser	Pro	Pro	Gln	Pro	Ser	Leu	Ala	Pro	
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99 aga	gag ca	g gag	gct	cct	ggg	acc	caa	tgg	cct	ctg	gat	gaa	acg	tca	1158
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104 Gly				_		_	_	_		_					
_		-	. 1111	GIU		_		лгу	GIU	. Alg			SCI	GIU	
105		15				220					225		_		1054
107 aaa			c cca	. tgg	gca	geg	ar.a							aca	1254
108 Lys	Glv A														
IUU LIU	011	rg Pro	Pro	Trp		A1a				Thr	Pro				
109	230	rg Pro) Pro	Trp	Ala 235	A1a					Pro				
109	230				235	A1a	Va1	Va1	G1y	Thr 240	Pro	Pro	G1n	Ala	1302
109 111 cac	230 acc a	ge eta	ı cag	ccc	235 cac	Ala cac	Va1	Val	Gly tgg	Thr 240 gag	Pro	Pro	G1n gtg	Ala aga	1302
109 111 cac 112 His	230 acc ac Thr Sc	ge eta	ı cag	ccc	235 cac His	Ala cac	Va1	Val	Gly tgg	Thr 240 gag Glu	Pro	Pro	G1n gtg	Ala aga Arg	1302
109 111 cac 112 His 113 245	230 acc ac Thr Se	gc cta er Lei	cag 1 G1n	ccc Pro 250	235 cac His	Ala cac His	Val cac His	Val cca Pro	tgg Trp 255	Thr 240 gag Glu	Pro cct Pro	Pro tct Ser	G1n gtg Va1	aga Arg 260	
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109 111 cac 112 His 113 245 115 gag 116 Glu	230 acc ac Thr So	ge eta er Lei te tgt	cag Gln tcc Ser	ccc Pro 250 aca	235 cac His	Ala cac His	val cac His	Val	tgg Trp 255 aat	Thr 240 gag Glu	Pro cct Pro	tct Ser	gtg Val aac Asn	aga Arg 260 caa Gln	
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109 111 cac 112 His 113 245 115 gag 116 Glu 117 119 aaa 120 Lys 121 123 gat 124 Asp	agc conservations agr conservation agr conservations agr conservation agr conservations agr conservation agr conserv	gc cta er Leu tc tgt eu Cys ca cac nr Glr 280 cg gtc eu Val	cag Gln tcc Ser 265 gctg Leu caag Lys	ccc Pro 250 aca Thr cta Leu aga Arg	235 cac His Trp ctt Leu ago Ser	Ala cac His ccc Pro cta Leu tgg	val cac His tgg Trp caa Gln 285 cct Pro	Val cca Pro aaa Lys 270 aga Arg	tgg Trp 255 aat Asn cct Pro	Thr 240 gag Glu gag Glu cac His	cct Progat Asp ccc Pro gag Glu 305	tct Ser ttt Phe aga Arg 290 gag Glu	gtg Val aac Asn 275 agc Ser aat Asn	aga Arg 260 caa Gln caa Gln caa Arg	1350 1398

Input Set : A:\07334-340001.TXT

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	caa Gln																1342
		GIU	PIO	Arg	тте	330	тте	ьeu	GIII	СТУ	335	нта	СТУ	TTE	СТУ	340	
	325						~+~	222	~~~	~~~		~~~		~~~	a a a		1590
	tca																1390
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	gat																1878
	Asp	Ala	Leu		GLY	Ser	Leu	Leu	_	Lys	Thr	He	Leu		Glu	Ala	
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	Ser	Phe		He	Thr	Ala	Arg		Thr	Ala	Leu	GIn		Leu	Пе	Pro	
165			455					460					465				1074
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	acc																2214
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	gga																2262
	Gly	Pro	GIN	Leu	Arg	_	ьeu	cys	ser	ьeu		Ата	GIU	СΤΆ	тте		
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Input Set : A:\07334-340001.TXT

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		CCC															2406
204	His	Pro	Ile	Pro	Leu	Ser	Tyr	Ser	Phe	Ile	His	Leu	Cys	Phe	Gln	Glu	
205			615					620					625				
207	ttc	ttt	gca	gca	atg	tcc	tat	gtc	ttg	gag	gat	gag	aag	ggg	aga	ggt	2454
208	Phe	Phe	Ala	Ala	Met	Ser	Tyr	Val	Leu	Glu	Asp	Glu	Lys	Gly	Arg	Gly	
209		630					635					640					
		cat															2502
212	Lys	His	Ser	Asn	Cys	Ile	Ile	Asp	Leu	Glu	Lys	Thr	Leu	Glu	Ala	Tyr	
213	645					650					655					660	
215	gga	ata	cat	ggc	ctg	ttt	ggg	gca	tca	acc	aca	cgt	ttc	cta	ttg	ggc	2550
216	Gly	Ile	His	Gly	Leu	Phe	Gly	Ala	Ser	Thr	Thr	Arg	Phe	Leu	Leu	Gly	
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219	ctg	tta	agt	gat	gag	ggg	gag	aga	gag	atg	gag	aac	atc	ttt	cac	tgc	2598
		Leu															
221				680					685					690		-	
223	cgg	ctg	tct	cag	ggg	agg	aac	ctg	atg	cag	tgg	gtc	ccg	tcc	ctg	cag	2646
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225			695					700					705				
227	ctg	ctg	ctg	cag	cca	cac	tct	ctg	gag	tcc	ctc	cac	tgc	ttg	tac	gag	2694
228	Leu	Leu	Leu	Gln	${\tt Pro}$	His	Ser	Leu	Glu	Ser	Leu	His	Cys	Leu	Tyr	Glu	
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232	Thr	Arg	Asn	Lys	Thr	Phe	Leu	Thr	Gln	Val	Met	Ala	His	Phe	Glu	Glu	
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236	Met	Gly	Met	Cys	Val	Glu	Thr	Asp	Met	Glu	Leu	Leu	Val	Cys	Thr	Phe	
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241				760					765					770			
243	agg	cag	cac	aga	tca	aca	tgg	agc	ccc	acc	atg	gta	gtc	ctg	ttc	agg	2886
244	Arg	Gln	His	Arg	Ser	Thr	Trp	Ser	Pro	Thr	Met	Val	Val	Leu	Phe	Arg	
245			775					780					785				
247	tgg	gtc	cca	gtc	aca	gat	gcc	tat	tgg	cag	att	ctc	ttc	tcc	gtc	ctc	2934
248	Trp	Val	Pro	Val	Thr	Asp	Ala	Tyr	Trp	Gln	Ile	Leu	Phe	Ser	Val	Leu	
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Input Set : A:\07334-340001.TXT

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	265	тэр	Cys	855	изр	БСи	niu	Tine	860	Dea	9			865				
			-+-		a+ a	200	++ 0	22+		at a	200	an t	act		acc	222	CaC	3174
									gtg									J1/4
		GIu		Asp	ьеи	ser	Pne		Val	Leu	THE	ASP		GTA	Ala	гуѕ	птэ	
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									ccg									3222
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	273						890					895					900	
									tct									3270
	276	Leu	Va1	Ser	Cys	G1y	Leu	Thr	Ser	Asp	Cys	Cys	G1n	Asp	Leu	Ala	Ser	
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	279	ata	ctt	aqt	qcc	agc	ccc	agc	ctg	aaq	gag	cta	gac	ctg	cag	cag	aac	3318
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		220	cta	πat		att	aac	ata	cga		ctc	tat	σασ	aaa		аσσ	cat.	3366
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	296	Leu	Leu	Ile	Phe	ser	Arg	Arg	Lys	Pro	Ser	Val	Met	Thr	Pro	Thr	Glu	
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									Lys									
		Leu	1030		пеп	Asp	Vai	1035		116	riic	110	1040		OIU	110	7114	
	309			-						~~~	~+~	~~~		-	+ ~ ~	ata	aat	3702
	311	gag	gaa	age	LCC	CCa	gay	y La	gta	Desc	919	gaa	Tau	tou	Crra	y L y	Dro	3702
				Ser	Ser	Pro			Val	Pro	vaı			Leu	Cys	vaı		
		1045					1050					1055					1060	2750
	315	tct	cct	gcc	tct	caa	ggg	gac	ctg	cat	acg	aag	cct	ttg	ggg	act	gac	3750
	316	Ser	Pro	Ala	Ser	Gln	Gly	Asp	Leu	His	Thr	Lys	Pro	Leu	Gly			
	317					1065					1070					1075		
	319	gat	gac	ttc	tgg	ggc	CCC	acg	ggg	cct	gtg	gct	act	gag	gta	gtt	gac	3798
	320	Asp	Asp	Phe	Trp	G1y	Pro	Thr	G1y	${\tt Pro}$	Va1	Ala	Thr	Glu	Val	Val	Asp	
	321	_	_		1080					1085					1090			
		aaa	qaa	aaq	aac	ttg	tac	cga	gtt	cac	ttc	cct	gta	gct	ggc	tcc	tac	3846
	324	Lvs	Glu	Lvs	Asn	Leu	Tvr	Ara	Val	His	Phe	Pro	Val	Āla	Gly	Ser	Tyr	
		- 1 -		- 1 -			- 4		_	_					-		-	

VERIFICATION SUMMARY

DATE: 03/25/2002

PATENT APPLICATION: US/09/996,617

TIME: 15:24:34

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